South Florida Water Management District Comments on the Everglades Restoration Transition Plan Draft Environmental Impact Statement

Governing Board Workshop April 13, 2011

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The Multi-Species Management Challenge

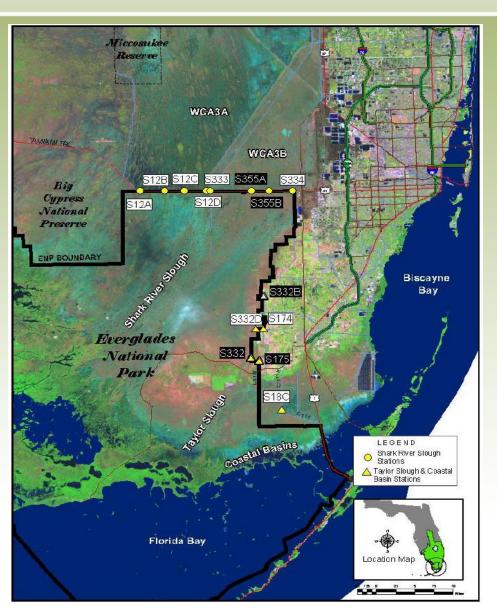
- Efforts to protect the Cape Sable Seaside Sparrow span a decade
- Broadening scope of species management to include the Everglade snail kite, wood stork and other wading bird species is important and consistent with a more system-wide approach
- SFWMD staff supports the efforts of U.S. Fish and Wildlife Service to apply solid science to create Multi-Species Transition Plan



SFWMD's Role in the Development of the ERTP Tentatively Selected Plan

- SFWMD participation was limited to preliminary technical input via Corps technical sub-teams
- SFWMD not included in efforts:
 - To characterize public health and safety issues
 - To develop and evaluate changes to the Water Conservation Area (WCA) -3A Regulation Schedule

Key Areas of Concern



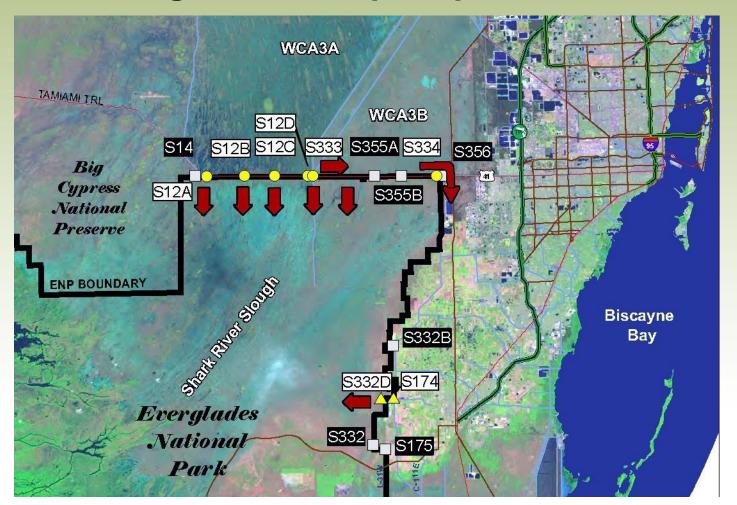
- Water Quality
- WCA-3A Ecology
- Water Supply
- Flood Protection/ Operations

Water Quality Issues

- •The SFWMD supports moving more water into Shark River Slough
- The Draft Environmental Impact Statement (DEIS) does not adequately address the risk of impacts to water quality compliance
 - •The SFWMD should not be held accountable for actions taken by the Federal government that cause a violation of the Long-term Limits in1995 Settlement Agreement
 - An interagency approach for addressing the increased risk for future exceedances in Shark River Slough is needed
- Proposed changes in management of flows upstream of Shark River Slough are likely to adversely affect the ability to meet phosphorus limits of the Settlement Agreement

Everglades National Park (ENP) Phosphorus Limit Reflects Total Flow

Five structures are monitored (S12A, B, C, D, and S333) for flow-weighted mean phosphorus of total flow



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

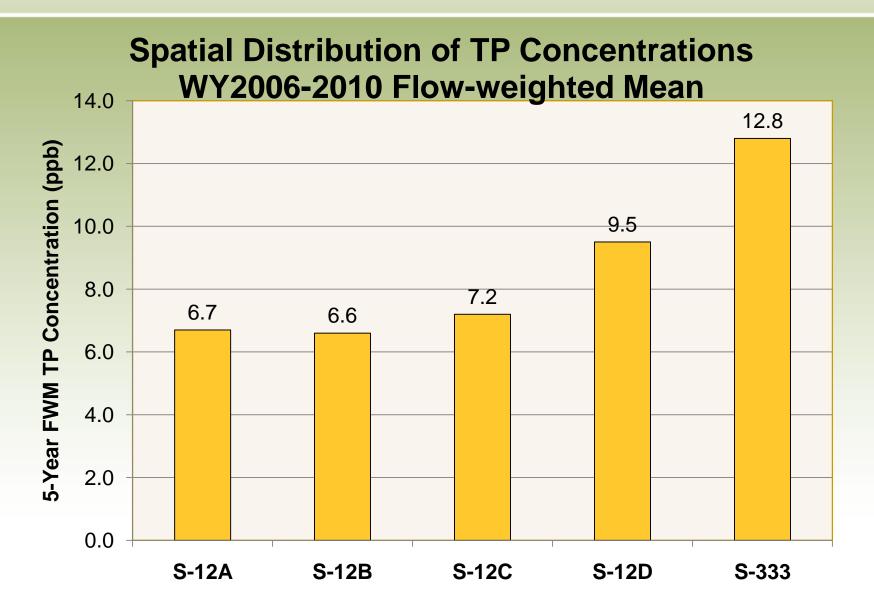
Settlement Agreement Compliance With the Long-Term Limit

For Everglades National Park / Shark River Slough

				Percent of Sampling Events Greater than 10 ppb
12-Month Period	Total Flow (kac-ft)	Flow-Weighted Mean TP Concentration (ppb)	Long-Term Limit (ppb) Effective 12/31/2006	Observed
*Oct 2007 - Sep 2008	562.0	10.6	10.2	73.7
Oct 2008 - Sep 2009	945.3	8.2	8.2	26.1
Oct 2009 - Sep 2010	809.8	8.9	8.9	50.0

^{*}Revised March 2011 – Did not constitute a violation

Potential Impacts to Water Quality



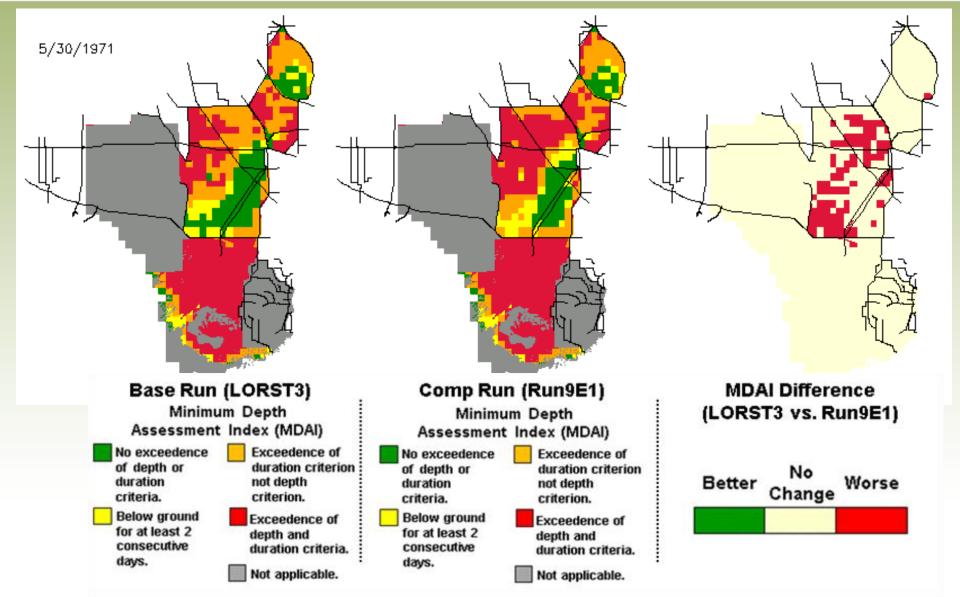
Factors Affecting Increase in Total Phosphorus

- Any change in seasonal distribution of flows can influence TP concentrations
- DEIS does not address range of uncertainties that can increase total phosphorus
 - Expanding areas of dry out and TP release upon rewetting
 - Changes in flow velocity or timing can alter water column concentrations
 - Stage levels and their fluctuations can influence concentrations in Shark River Slough

WCA-3A Ecological Concerns

- Potential risks associated with lowering the WCA-3A regulation need further clarification
- Implications to wading bird colonies and foraging areas in northern WCA-3A are not fully discussed
- Potential for peat loss and muck fires in central and northern WCA-3A may be greater than depicted
- No soil or water quality assessments have been conducted to look at the impacts of lower water levels on water quality within WCA-3A
- Tree island recovery in southern WCA-3A could be offset by increasing stress to high quality Everglades landscapes in central WCA-3A
- CERP indicator regions and performance measures should have been considered when evaluating the impacts of lower water levels

Ecological Impacts in WCA-3A MFL Exceedances for 1971: A Very Dry Year



Public and Agricultural Water Supply Issues

- Managing WCA-3A at lower levels reduces storage available for consumptive use
- DEIS incorrectly assumes that Lake Okeechobee can deliver water during dry periods
 - Significant conveyance limitations and losses

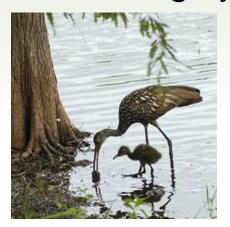


Public and Agriculture Water Supply Issues

- Insufficient information and analysis to determine impacts to public and agriculture water supply
 - Level of certainty
 - Water shortage duration, frequency and severity
- Periodic Scientists Calls need to include water supply experts when making release determinations

Flood Protection and Operational Issues

- Health and public safety risk is not clearly defined
- The rationale for returning to a schedule used in the 1960s rather than a more progressive schedule is not clear
- Potential impacts and risks associated with proposed operational changes are not thoroughly analyzed and documented



Flood Protection and Operational Issues

- Corps proposing to incorporate "Operational Flexibility" to address issues not modeled in the Draft EIS
 - Operational flexibility needs to be bounded by operating criteria that recognizes realities of operating a complex network of water management facilities
- Modeling underestimates flood impacts to the South Dade Conveyance System
- Development of Water Control Plan essential for SFWMD to assess overall impacts of ERTP

Next Steps in Review Process

- Comments to Corps on the DEIS are due April 18th
- SFWMD has responsibilities for determining Coastal Zone Management Act compliance with Chapter 373 Florida Statutes.
 - Insufficient information provided to determine whether ERTP will impact water quality and Settlement Agreement compliance
 - Insufficient information to determine whether impacts to permitted water users and flood protection will occur

Key Future Actions Needed

- Initiate a cooperative process for Settlement Agreement parties to resolve Shark River Slough water quality risk.
- Complete Water Control Plan and address water supply and flood protection risk prior to Final EIS and Record of Decision
- Active participation by SFWMD staff in the finalization of Water Control Plan for ERTP as local sponsor of the C&SF Project

Questions?